

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,057	0/715,057 11/17/2003		Vladimir I. Merkulov	UBAT1310-1	7024
38396	7590	06/26/2006		EXAMINER	
JOHN BRU		,	FULK, STEVEN J		
5708 BACK AUSTIN, T			ART UNIT	PAPER NUMBER	
•				2891	

DATE MAILED: 06/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Supplemental Notice of Allowability

Application No.	Applicant(s)	
10/715,057	MERKULOV ET AL.	
Examiner	Art Unit	
Steven J. Fulk	2891	

	Steven J. Fulk 2891
All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85)	or other appropriate communication will be mailed in due course. THIS GHTS. This application is subject to withdrawal from issue at the initiative and MPEP 1308.
2.  The allowed claim(s) is/are 20,22-31,38-41 and 45-47.	•
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of	been received. been received in Application No uments have been received in this national stage application from the
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF s reason(s) why the oath or declaration is deficient.
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.</li> </ol>	on's Patent Drawing Review ( PTO-948) attached
each sheet. Replacement sheet(s) should be labeled as such in the 6.   DEPOSIT OF and/or INFORMATION about the deposit of the sheet in the sheet.	e header according to 37 CFR 1.121(d).
attached Examiner's comment regarding REQUIREMENT	OR THE DEPOSIT OF BIOLOGICAL MATERIAL.
Attachment(s)  1. Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date  7. ⊠ Examiner's Amendment/Comment
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.  Examiner's Statement of Reasons for Allowance
	9.

Application/Control Number: 10/715,057 Page 2

Art Unit: 2891

#### **DETAILED ACTION**

#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John Bruckner on June 19, 2006.

The application has been amended as follows:

In the claims, replace claim 20 with:

--An apparatus, comprising an expanded base carbon containing tip including: a carbon containing expanded base coupled to a substrate; and a carbon containing extension coupled to said carbon containing expanded base, wherein said carbon containing expanded base is substantially cylindrically symmetrical and said carbon containing extension is substantially cylindrically symmetrical, and wherein the expanded base carbon containing tip defines a slope with a discontinuity between the carbon containing expanded base and the carbon containing extension.--

In the claims, in line 6 of claim 38, replace "wherein the sharp time carbon" with --wherein the sharp tip carbon--.

In the claims, replace claim 45 with:

--An apparatus, comprising: a substrate; and a carbon nanostructure coupled to the substrate, wherein the carbon nanostructure defines a carbon containing

Application/Control Number: 10/715,057

Art Unit: 2891

expanded base, wherein there is a connection between the carbon containing expanded base and the substrate, wherein the carbon nanostructure includes a carbon containing extension coupled to the carbon containing expanded base, wherein said carbon containing expanded base is substantially cylindrically symmetrical and said carbon containing extension is substantially cylindrically symmetrical, and wherein the expanded base carbon containing tip defines a slope with a discontinuity between the carbon containing expanded base and the carbon containing extension.—

Page 3

### Allowable Subject Matter

2. The following is a supplemental examiner's statement of reasons for allowance: the phrase "substantially cylindrically symmetrical" recited in claims 20, 38 and 45, is read as being substantially radially symmetrical, as supported by page 5, lines 22-26 of the specification and figure 3B.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Fulk whose telephone number is (571) 272-8323. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

Art Unit: 2891

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SIF

Steven J. Fulk Patent Examiner Art Unit 2891

June 19, 2006

B. WILLIAM BAUMEISTER
SUPERVISORY PATENT FYMAN